

SSTD Incoming Inspection Report

Spacecraft/Project **HERSCHEL / SPIRE**

Document Number **SPIRE-RAL-REP- 002689**

Issue **1**

Sub System **SMEC**

Date **25th July 2006**

Model **PFM**

INCOMING INSPECTION REPORT

FROM	
LAM	
Laboratoire d'Astronomie Spatiale, Marseille	

TO	
Project	
Rutherford Appleton Laboratory	
Space Science and Technology Department	
Chilton	
DIDCOT	
OXON	
OX11 0QX	

Applicable sections	
Containers	Yes
External Visual Inspection	Yes
External Connector	Yes
Documentation	No
Verification of Interfaccs	
Extra Comments Sheets	Yes

Drawings / Documents Attached	
Photo's	

INSPECTION CONDUCTED BY

NAME
LAM personnel

DATE
25th July 2006

WITNESS BY

NAME
Eric Clark (PA)

DATE
25th July 2006

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CONTAINER INSPECTION

TRANSPORT CONTAINERS EXTERNAL CONDITION	REMARKS	Status
Mechanical damage to container fasteners, locks, clips or handling provisions		Checked
Security / Locking Fitted		Checked
Markings for destination and description		Checked
Warning labels relating to handling lifting and stacking limits		Checked
Any additional Comments	three Large Crates The Larger containing the Smec	

TRANSPORT CONTAINERS INTERNAL CONDITION	REMARKS	Status
Check Mounting fixtures fitted internal packaging		Checked
Internal padding / packaging required		Checked
Mounting provisions secure		Checked
Any additional Comments	The SMEC is mounted in a protective Case double bagged Large Transport Case inside	See Remarks

ENVIORNMENTAL MONITORS																														
Temp Monitors	Humidity Monitors	Shock Sensors Triggerd Information																												
Fitted: <input type="text" value="No"/>	Fitted: <input type="text" value="No"/>																													
Condition: <input type="text"/>	Condition: <input type="text"/>																													
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="width: 16.6%;">5g</th> <th style="width: 16.6%;">10g</th> <th style="width: 16.6%;">15g</th> <th style="width: 16.6%;">25g</th> <th style="width: 16.6%;">50g</th> </tr> </thead> <tbody> <tr> <td>X Axis</td> <td>OK</td> <td>N/F</td> <td>OK</td> <td>OK</td> <td>N/F</td> </tr> <tr> <td>Y Axis</td> <td>OK</td> <td>N/F</td> <td>OK</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>Z Axis</td> <td>Minus</td> <td>N/F</td> <td>OK</td> <td>OK</td> <td>N/F</td> </tr> </tbody> </table>						5g	10g	15g	25g	50g	X Axis	OK	N/F	OK	OK	N/F	Y Axis	OK	N/F	OK	OK	OK	Z Axis	Minus	N/F	OK	OK	N/F
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INSTRUMENT VISUAL INSPECTION

CHECK LIST	REMARKS	RESULTS
Contents against shipping list	SMEC only delivered the Other equipment will return to LAM	See Remarks
Instrument label		Correct
Note status of external contamination		Acceptable
Degradation of paintwork or Coating?		None
Fasteners correctly locked?		Correct
Check protective covers are correctly labelled and fitted?		N/A
Additional Comments		None

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INSPECTION OF ALL CONNECTORS

CHECK LIST	REMARKS (LIST CONNECTOR NUMBERS)	RESULTS
Pin Alignment		Pass
Damaged Sockets		None
Internal Debris		Pass
Connector Covers fitted		N/A
Connector Savers Fitted		Pass
EMC Covers Fitted	Shorting connectors fitted to savers	See remark
RED Tag Item / Green Tag Items fitted	Except Savers	None
Additional Comments		

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DOCUMENTATION CHECK LIST

Check	REMARKS	RESULTS
End Item Data Pack		Yes
Transportaion Documents		Yes
Packing un- Packing instructions	Unpacking performed with LAM personnel Un-packing instructions not required.	Yes
Additional Comments		None

Verification of Interfaces

Mechanical interface: dimensions specified in the interface control documents such as mass, flatness of surfaces, location of fixing holes and overall dimensions should be measured accurately and recorded. Record Test Report Number, or confirm that measurement result is included in delivery documentation, (EIDP).

INSPECTION / TEST REPORT NUMBER **CHECKED** To be preformed at integration

Electrical interfaces: verifying the location and types of connectors against interface control document is normally carried as part of mechanical verification, confirm this has been done. Functional testing: final functional test report number should be noted.

INSPECTION / TEST REPORT NUMBER **CHECKED** To be preformed at integration

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Sub System SMEC

Date 25th July 2006

Model PFM

EXTRA COMMENT SHEET

The SMEC to be integrated to the FPU BY LAM/SSTD

PLAN Of Action

Mounting plate integrated on to FPU to check interface flatness

Functional test of SMEC performed

Delta DRB held in CDF.

Tape Residue found on FPU in Area where SMC will be fitted, LAM/RAL cleaned Area

John Macerness (SSTD RAL) Soldered Thermistors to SMEC

Inspect Soldering

Integrate SMEC

Results.

measured at 5 microns

Passed ok

26th July 06 am

Passed Inspection by Eric Clark.

SSTD RAL & LAM

Cases as delivered from LAM



Drop & Tell Monitors on Outside of SMEC Transit Case 50G OK



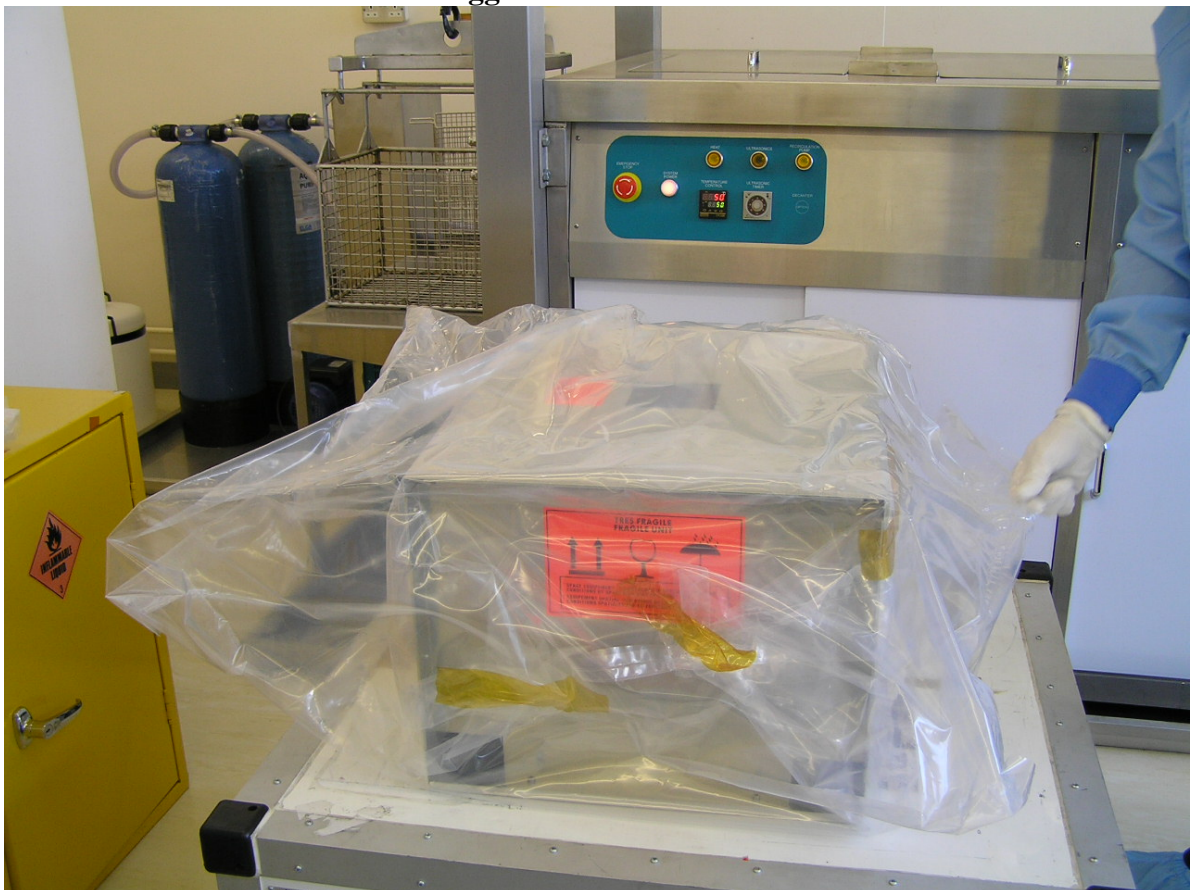
Drop & Tell Monitors on Outside of SMEC Transit Case 25G OK



Drop & Tell Monitors on Outside of SMEC Transit Case 25G OK



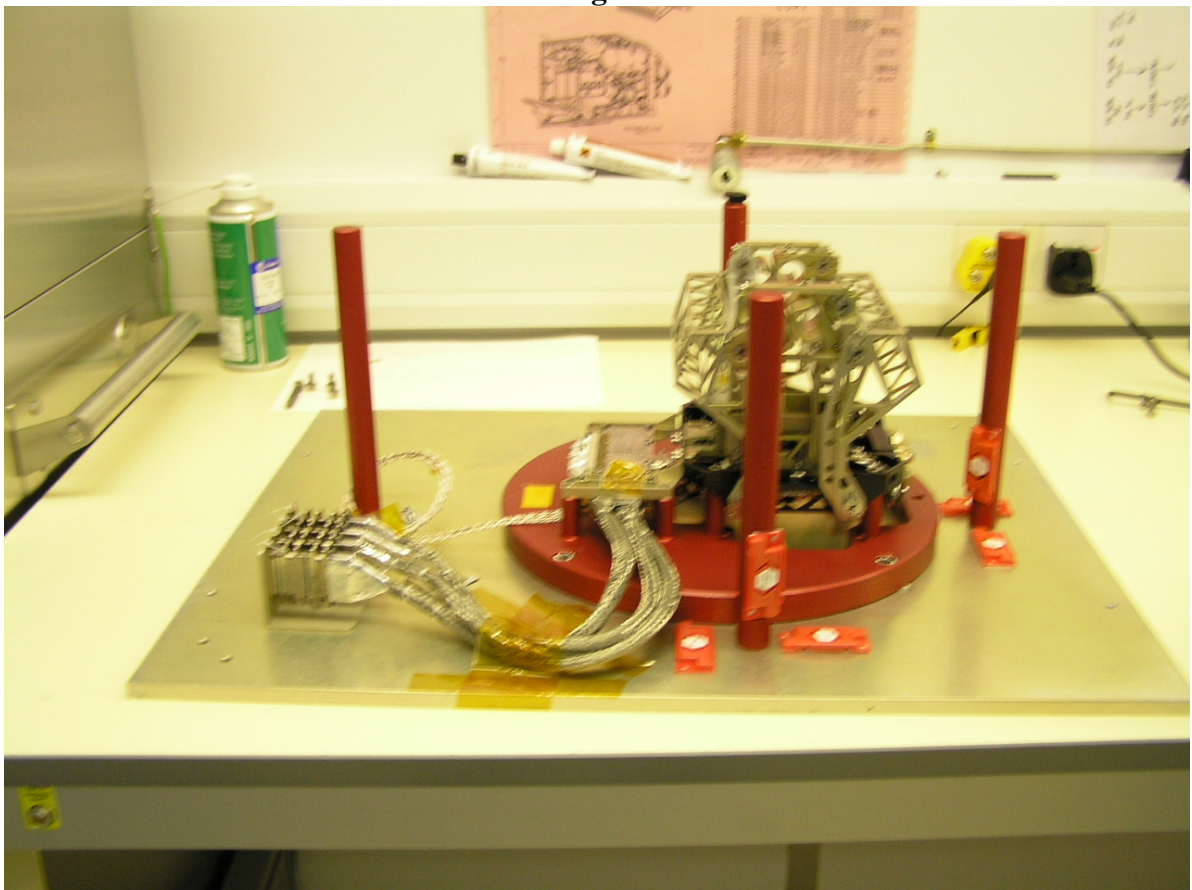
SMEC in Protective Case Double Bagged



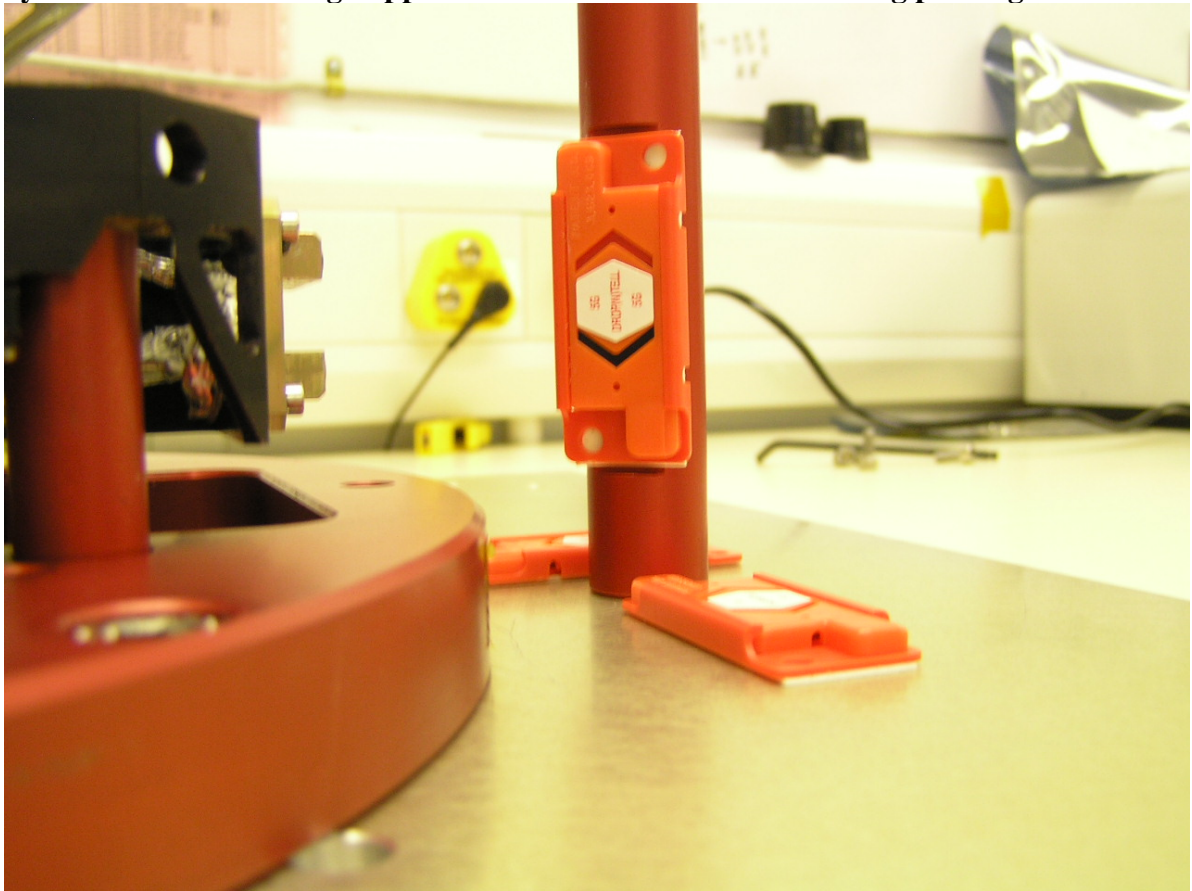
SMEC in Protective case, with Bag removed, in G56 clean room



SMEC with Protective cover removed showing shock monitors



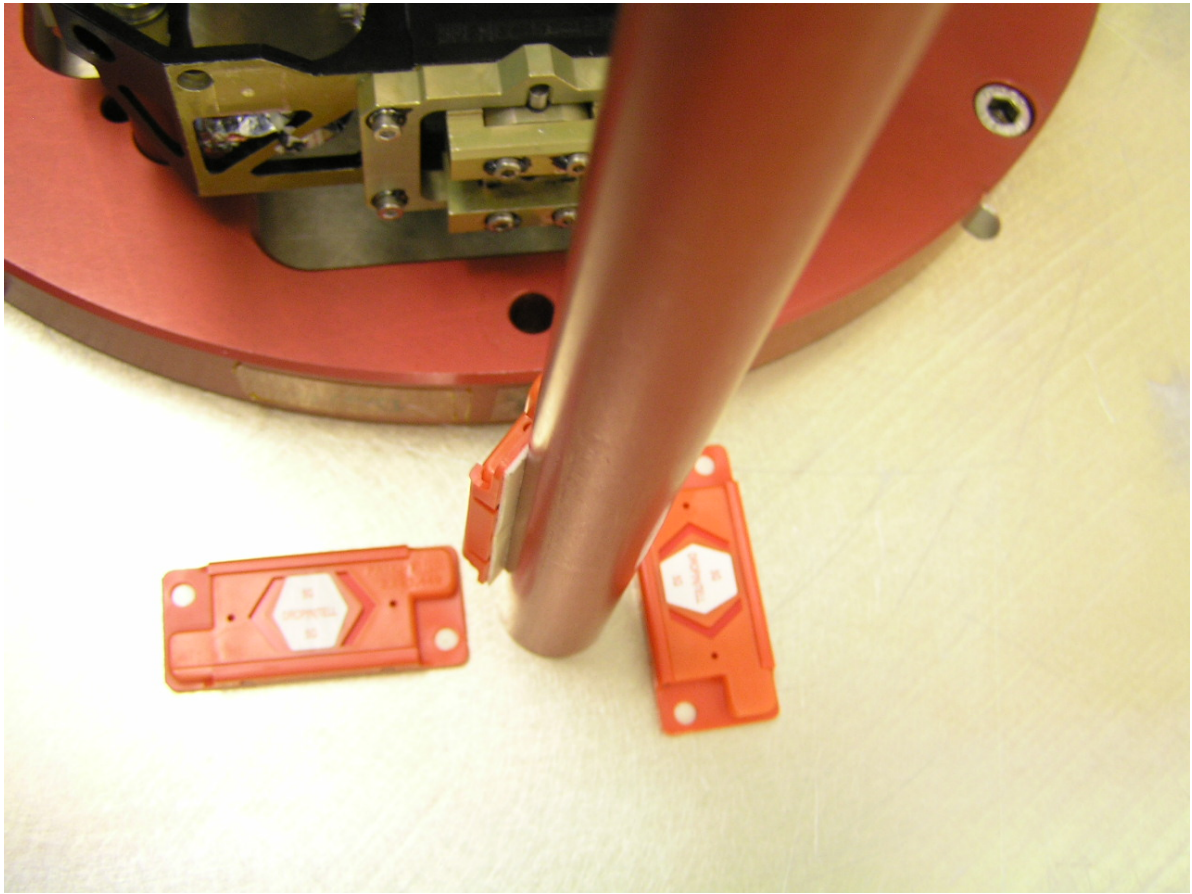
Only one Shock monitor 5g tripped LAM think this was done during packing at LAM



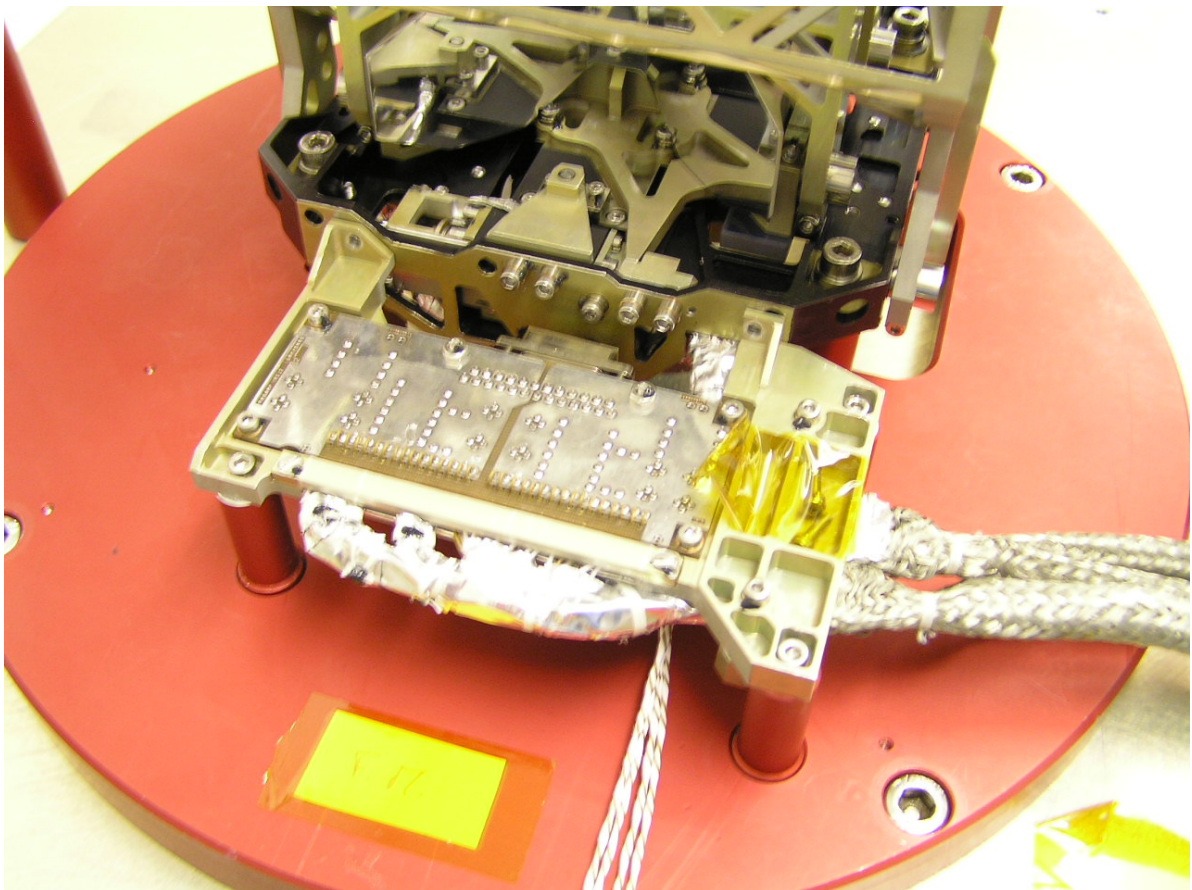
TRIP Monitors OK



TRIP Monitors OK



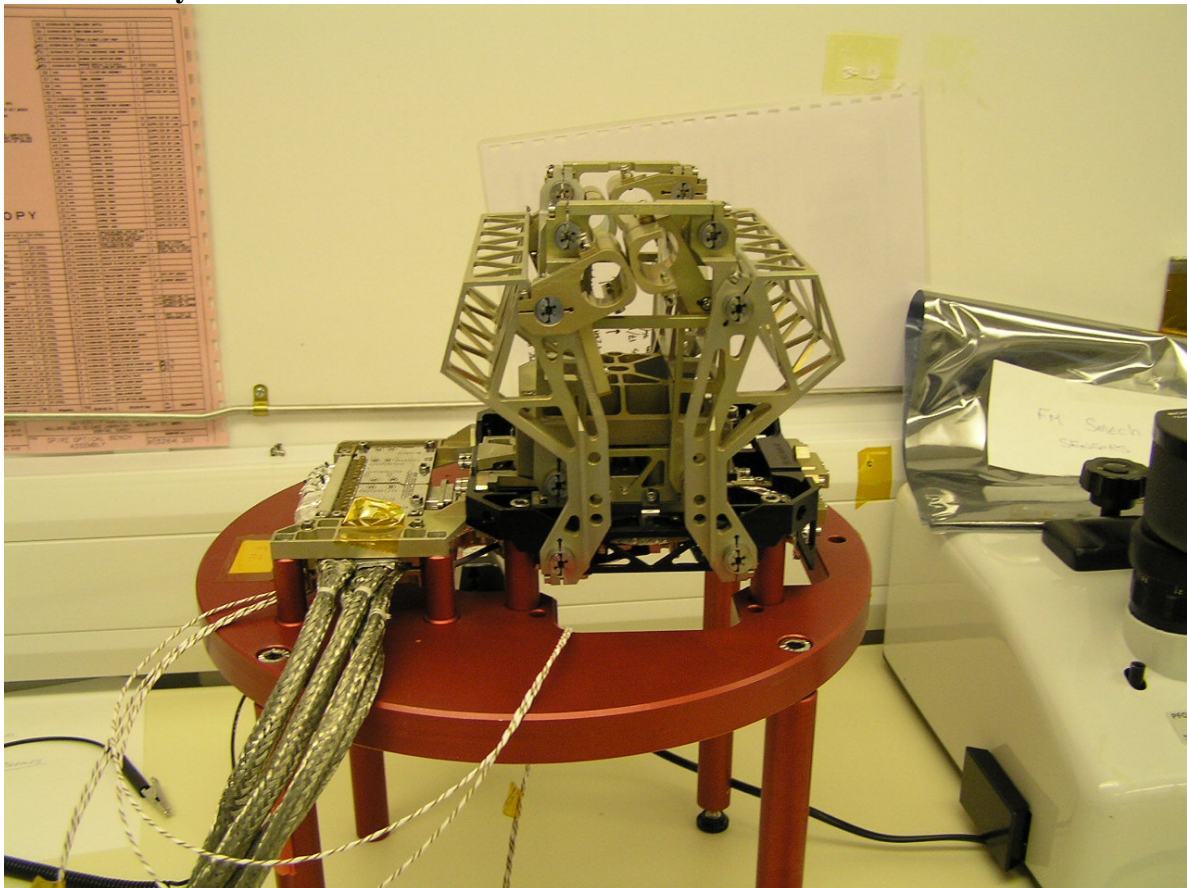
Side of SMEC and PCB



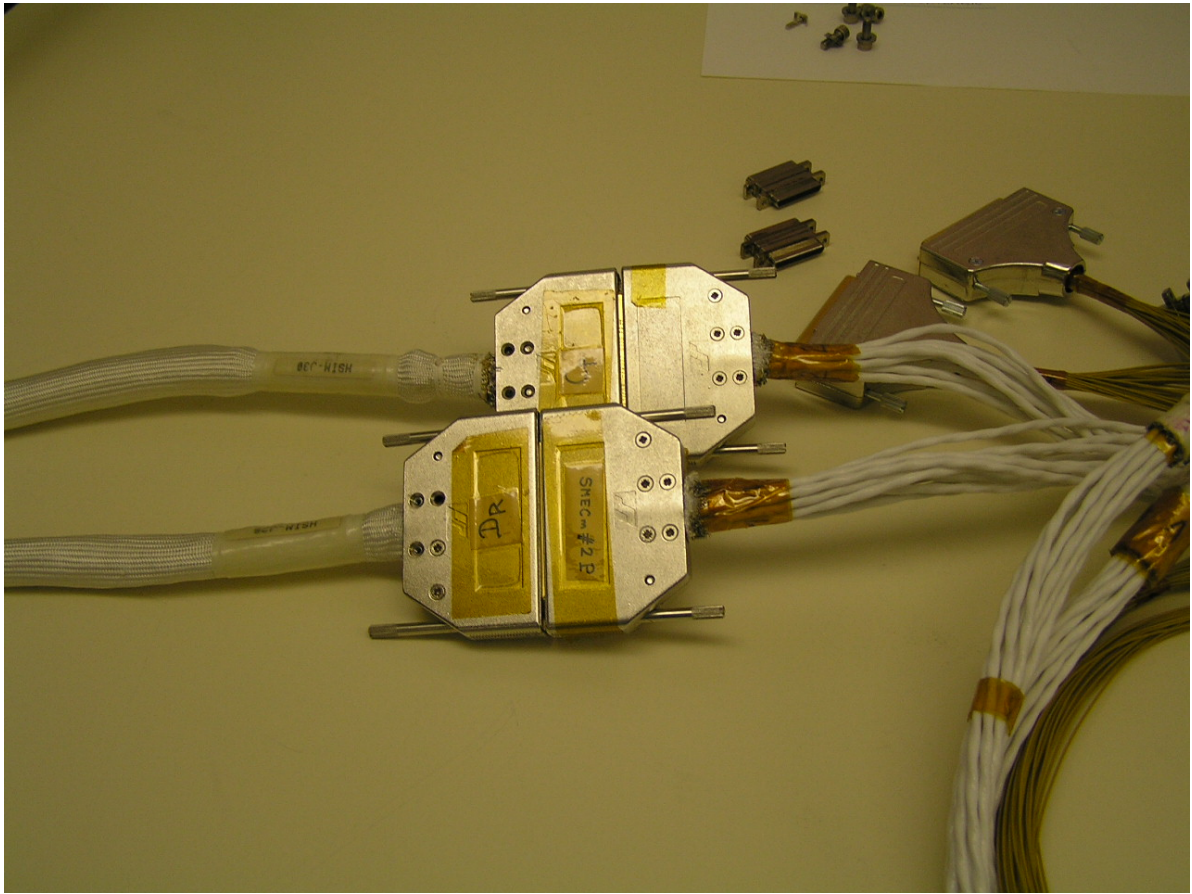
Shorting Plugs in Savers on transit plate



SMEC Ready for Thermistors to be added



Connections for start Functional Test



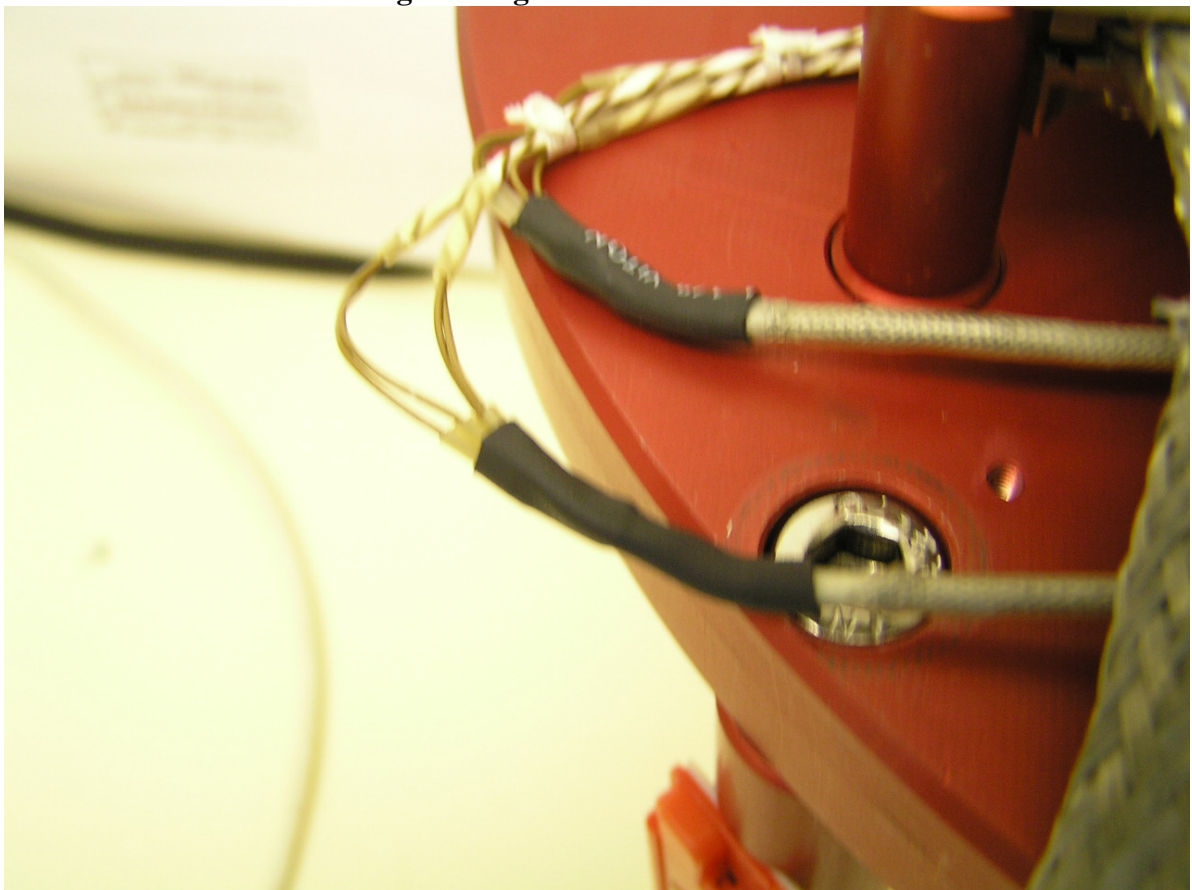
SMEC EGSE test Bench



Thermistors Connected showing cable ties.



Thermistors Connected showing sleeving over solder Joints.



Thermistors

